AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-22 (canceled).

23. (new): A method of registering an address and a domain name, the method comprising:

(a) receiving a first message including a first address and a first domain name of a first host from the first host;

(b) determining whether there is a second host with at least one of a second address and a second domain name duplicative with at least one of the first address and the second domain name included in the received first message; and

(c) registering the first address and the first domain name included in the first message as an address and a domain name of the first host, according to a determined result.

24. (new): The method of claim 23, wherein operation (c) comprises:

if the second host does not exist on the network, storing the first address and the first domain name included in the received message in a predetermined area, thereby registering the address and the domain name included in the received message.

25. (new): The method of claim 24, wherein the method is performed by a DNS (Domain Name Server) if the DNS exists, and wherein the predetermined area is a DNS file area.

26. (new): The method of claim 24, wherein the method is performed by a plurality of different hosts connected on a network if no DNS (Domain Name Server) exists, and wherein the predetermined area is a storage area of the plurality of different hosts.

27. (new): The method of claim 23, wherein the first address is an IPv6 (IP version 6) address and the first message is a message requiring a DAD (Duplicate Address Detection.

28. (new): The method of claim 23, wherein the first message includes:

a target address field storing the first address of the host: and an option field storing the first domain name of the host.

29. (new): The method of claim 23, further comprising:

(d) in operation (b), if it is determined that the second host exists, determining which of the second address and the second domain name is duplicative; and

(e) in operation (d), if it is determined that the second address is duplicative, transmitting a second message requiring a change of the first address, to the first host.

30. (new): The method of claim 29, wherein the second message includes:

a target address field storing the address of the host; and

an option field storing a MAC address of the host.

31. (new): The method of claim 23, further comprising:

(d) in operation (b), if it is determined that the second host exists, determining which of the address and the domain name is duplicative; and

(e) in operation (D), if it is determined that the domain name duplicative, transmitting a message requiring a change of the domain name to the host.

32. (new): The method of claim 31, wherein the third message includes:

a target address field storing the first address of the first host;

an option field storing the first domain name of the first host; and

a flag storing a predetermined value to change the domain name.

33. (new): A method allowing a host to request registration of an address and a domain name of the host, comprising:

(a) transmitting a message including the address and the domain name of the host, thus requesting the registration;

(b) receiving a response message for the request according to whether at least one of the address and domain name of the host is duplicative; and

(c) changing the at least one of the address and the domain name of the host according to whether or not the response message is received.

34. (new): The method of claim 33, further comprising:

(d) transmitting a message including at least one of a changed address and a changed domain name, thus requesting the registration.

35. (new): The method of claim 33, wherein, in operation (b), if a DNS exists on a network, the response message is received from the DNS, and if no DNS exists on the network, the response message is received from a plurality of different hosts connected on the network.

36. (new): The method of claim 33, wherein the address is an IPv6 (IP version 6) address, and the message is a message requesting DAD (Duplicate Address Detection).

37. (new): The method of claim 33, wherein the message includes:

a target address field storing the address of the host; and

an option field storing the domain name of the host.

38. (new): The method of claim 33, wherein in operation (c), if a first response message requesting a change of the address is received in operation (b), the address of the host is changed.

39. (new): The method of claim 38, wherein the first response message includes:

a target address field storing the address of the host; and

an option field storing a MAC address of the host.

40. (new): The method of claim 33, wherein, in operation (c), if a first response message requesting a change of the domain name is received in operation (b), the domain name of the host is changed.

41. (new): The method of claim 40, wherein the first response message includes:

a target address field storing the address of the host;

an option field storing the domain name of the host; and

a flag storing a predetermined value to change the domain name.

42. (new): A computer-readable medium having embodied thereon a computer program for executing the method of any one of claims 23 through 41.